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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/708,973	04/05/2004	Brian W. Cho	68.0476	2972
35204 759	90 09/13/2006		EXAM	INER
SCHLUMBERGER RESERVOIR COMPLETIONS			SMITH, MATTHEW J	
14910 AIRLINE ROSHARON, T			ART UNIT	PAPER NUMBER
			3672	
			DATE MAILED: 09/13/2000	6

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)			
	10/708,973	CHO ET AL.			
Office Action Summary	Examiner	Art Unit			
	Matthew J. Smith	3672			
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with	the correspondence address			
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DATE of the state of the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period we failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNIC 36(a). In no event, however, may a re- will apply and will expire SIX (6) MONT , cause the application to become ABA	ATION. oly be timely filed HS from the mailing date of this communicati NDONED (35 U.S.C. § 133).	·		
Status					
1) Responsive to communication(s) filed on <u>07 Ju</u>		,			
, _] This action is FINAL . 2b)⊠ This action is non-final.				
3) Since this application is in condition for allowar	·		is		
closed in accordance with the practice under E	x parte Quayle, 1935 C.D.	11, 453 O.G. 213.			
Disposition of Claims					
4) Claim(s) <u>1,2,6-9,15-28,32-44 and 46-55</u> is/are 4a) Of the above claim(s) is/are withdraw 5) Claim(s) <u>43,44 and 46-48</u> is/are allowed. 6) Claim(s) <u>1,2,6-9,15-17,21,27,28,32,49 and 53</u> 7) Claim(s) <u>18-20, 22-26, 33-42,50-52, 54, and 58</u> 8) Claim(s) are subject to restriction and/or	is/are rejected. 5 is/are objected to.				
Application Papers					
9) The specification is objected to by the Examine 10) The drawing(s) filed on is/are: a) accomplicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Examine	epted or b) objected to be drawing(s) be held in abeyand ion is required if the drawing(s	e. See 37 CFR 1.85(a). s) is objected to. See 37 CFR 1.121			
Priority under 35 U.S.C. § 119					
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the priority application from the International Bureau * See the attached detailed Office action for a list	s have been received. s have been received in Aprity documents have been in (PCT Rule 17.2(a)).	plication No eceived in this National Stage			
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08)	Paper No(s	ummary (PTO-413) /Mail Date formal Patent Application			
Paper No(s)/Mail Date <u>20Jun06</u> .	6) Other:	• •			

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Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1, 6-9, 15, 21, 27, and 28 are rejected under 35 U.S.C. 102(b) as being anticipated by Retz (4501327).

Retz discloses a method comprising: deploying a spring 54 downhole; energizing the spring (fig. 1); energizing the spring before running the spring downhole (Fig. 2); releasing the spring from an unenergized state (col. 5, lines 41-42, "flexing outwardly") to form the annular barrier (Fig. 1); twisting the spring to reduce a diameter of the spring while maintaining the spring at the same axial length (Fig. 2); twisting the spring consistent with a helical orientation of the spring (Fig. 2); the spring having an axial length; energizing the spring by pulling (Fig. 1); twisting the spring from a direction opposite from a direction defined by a spring helical orientation (Fig. 2); energizing the spring after running the spring downhole (Fig. 1); and elastomeric sleeve 66 to compress the spring.

Claims 16 and 17 are rejected under 35 U.S.C. 102(b) as being anticipated by McCullough et al. (3314479).

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McCullough et al. disclose a method comprising: forming a helical groove 14 in a tubular member 10 to form an elastic body that recovers its original shape after distortion (inherent when helically slotting a metal tube) or spring that is used to expand in the well to form an annular barrier and longitudinally varying a profile of the tubular member to form the spring.

Claim 32 is rejected under 35 U.S.C. 102(b) as being anticipated by Mouton (5335723).

Mouton discloses a string 14 run into a well and a spring 16 adapted to expand (hub part 26 is not fastened) to form a barrier and the spring profile varies along the longitudinal length.

Claims 49 and 53 are rejected under 35 U.S.C. 102(b) as being anticipated by Gore (3067819).

Gore discloses a method comprising deploying a spring 20b around a wedge E and energizing the spring; the spring 20b forming an annular barrier and a wedge 57 circumscribed by the spring 20b and adapted to exert a radial force to expand the spring

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Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claim 2 is rejected under 35 U.S.C. 103(a) as being unpatentable over Retz in view of Gore.

Retz discloses deploying a spring 54 downhole and energizing the spring (fig. 1) but not energizing a coil spring.

Gore presents a coil spring inflatable to seal a rubber sleeve 48.

It would have been obvious to a person having ordinary skill in the art at the time the invention was made to use a coil spring in the Retz device since the operation of the Retz device would function the same with a coil spring, which Gore presents as being well known.

Allowable Subject Matter

Claims 43, 44, and 46-48 are allowed.

Claims 18-20, 22-26, 33-42, 46, 47, 50-52, 54, and 55 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in

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independent form including all of the limitations of the base claim and any intervening claims.

Response to Arguments

Applicant's arguments, see page 10, filed 7 July 2006, with respect to claims 21, 22, 25, 38, 39, 43, and 44 have been fully considered and are persuasive. The 35 U.S.C. 102 rejection of claims 21, 22, 25, 38, 39, 43, and 44 has been withdrawn.

The examiner contends Retz does "energize" the spring prior to running the tool into the well. Note figure 2 compared to figure 1. In figure 2 the spring is collapsed or energized. In figure 1, the energy is released causing radial expansion. Also, when Retz discusses elements 54 "flexing outwardly", the energy is being released.

With regard to the McCullough et al. discussion, while McCullough et al. do not use the word "spring" in the disclosure, the examiner feels the claim is still anticipated. Cutting a helical slot in a tube has the properties very much similar to a spring. Since the objective of the applicants spring is the flexibility when expanded, the McCullough et al. body 10 has the same flexibility characteristic-even though the disclosure does not use the word spring.

The rejection of claim 21 is new and considered anticipated as set forth above.

Claim 32 is now anticipated by Mouton. The examiner does not equate "annular barrier" with the concept of completely sealing the annulus. Using the definition of barrier as an obstruction, restriction, or impedance to flow, the examiner interprets the Mouton wire 17 an annular barrier, and thus anticipating claim 32.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Matthew J. Smith whose telephone number is 571-272-7034. The examiner can normally be reached on T-F, 9-4.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David J. Bagnell can be reached on 571-272-6999. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

David Bagnell
Supervisory Patent Examiner
Art Unit 3672

MJS

7 September 2006

Jennifer H. Gay Primary Examiner